



MURS360B(LS)

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 600 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

- · Glass passivated chip
- · Super fast switching for high efficiency
- · For surface mounted applications
- · Low forward voltage drop and high current capability
- · Low reverse leakage current
- Qualified according to AEC-Q101 Rev_D
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

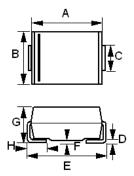
· Package: Molded plastic

 Package Material: Molding compound, UL Flammability classification 94V-0,"Halogen-free".

Polarity: Color band denotes cathodeWeight:0.003 ounces, 0.093 grams

• Marking: U3JB

SMB



SMB				
DIM.	MIN.	MAX.		
Α	4.06	4.57		
В	3.30	3.94		
С	1.96	2.21		
D	0.15	0.31		
E	5.21	5.59		
F	0.05	0.20		
G	2.01	2.50		
Н	0.76	1.52		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

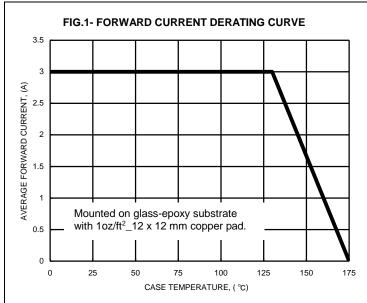
CHARACTERISTICS	SYMBOL	MURS360B	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward Rectified Current @Tc=130°C	I _{AV}	3.0	A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	100	А
Maximum Forward Voltage at 3.0A DC	VF	1.25	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=150°C	IR	3.0 150	uA
Maximum Reverse Recovery time (IF =0.5A , IR=1.0A , IR=0.25 A)	trr	50	ns
Single pulse avalanche energy @15mH	Eas	10.8	
Typical Junction Capacitance (Note 4)	Cj	45	pF
Typical Thermal Resistance (Note 5, 6)	R⊝ JC R⊝ JL R⊝ JA	12 26 47	
Operating Junction Temperature Range	Tj	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C
			REV -4 Oct-2021 KSGR10

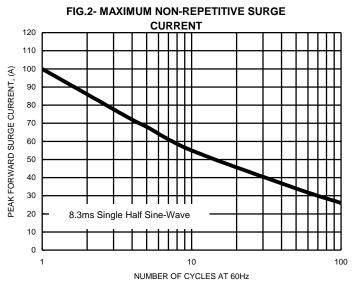
Note:

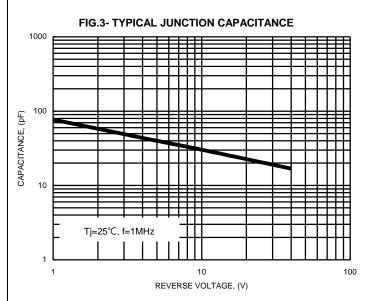
REV.-4, Oct-2021, KSGB10

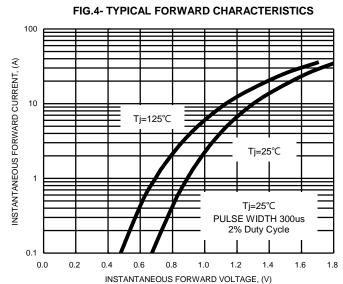
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 5. Thermal Resistance Junction to Case, Lead and Ambient.
- 6. Unit mounted on glass epoxy substrate 1oz/ft 12 mm x 12 mm copper pad.

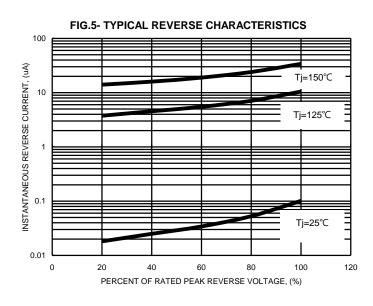
RATING AND CHARACTERISTIC CURVES MURS360B









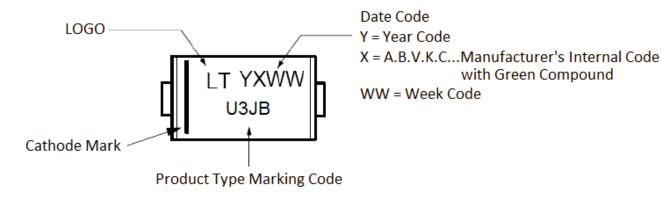


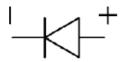


Ordering Information:

	Package	Packing		
Part Number		Qty.	Carrier	
MURS360B	SMB	3000	Tape & Reel	

Marking Information:







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